

This listing of claim will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1-4 (canceled).

5 (new). A synchronous machine comprising a rotor and shortable armature windings connected to a power converter comprising two half-bridges for positive and negative half-waves of the current, the half-bridges being switchable by power breakers which short the armature windings, and the power breakers of the two half-bridges being controllable alternately by a control device in dependence on the difference between a set value of the braking moment and an actual value of the short-circuit current.

6 (new). A synchronous machine comprising a rotor and short-circuited armature windings, optionally by a braking resistor, wherein the armature windings are connected to a rectifier circuit which can be shorted by a power breaker, and wherein the power breaker can be triggered via a closed-loop control device depending on the difference between the set value and the short-circuit current corresponding to the set value of the braking moment and the actual value of the short-

circuit current in order to regulate the short-circuit current by a pulse-width modulation depending on said difference.